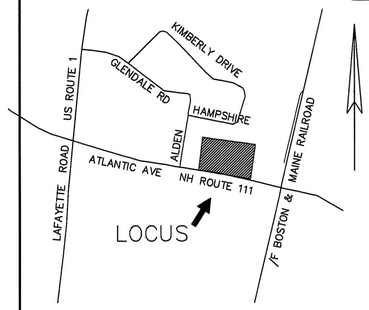
LOCUS MAP

NOT TO SCALE



SOIL CLASS: 140 CHATFIELD–HOLLIS–CANTON
(SOURCE: USDA–SCS SOIL SURVEY)

BENCH MARKS: DATUM = NGVD 1929 PER RCRD PLAN D19087

#1 SET PK ELEV 79.61

#2 SET PK ELEV 81.84

#3 SE CORNER GENERATOR PAD ELEV 81.15

DESIGN INTENT:

1. THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 76.8
2. THERE IS/ARE APPROX 3.7' FT BELOW ORIGINAL GROUND ON THE HIGH CONTOUR THE DESIGNED EDS. EL 80.5

SUITABLE REPLACEMENT AREA:

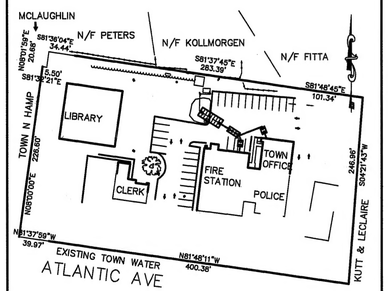
SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED.

LEGEND:

- 50 / (50) — EXISTING CONTOUR / PROPOSED CONTOUR
- 50.0 — EXISTING SPOT ELEVATION
- (50.0) — PROPOSED SPOT ELEVATION

NOTES:

1. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE: RCRD PLAN D19087
2. NHDES–WS&PCD SUBDIVISION APPROVAL NUMBER: SUBDIVISION APPROVAL N/A
   PREVIOUS CONSTRUCTION APPROVALS UNKNOWN
3. THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL, JACUZZI BATH, OR SEWAGE EJECTOR PUMP WASTE. BACKWASH FROM WATER SOFTENER SYSTEMS SHOULD BE DISCHARGED TO A SEPARATE DRYWELL.
4. a) NO SURFACE WATER WITHIN 75'
   b) NO WELLS WITHIN 75'
   c) NO HYDRIC B SOILS WITHIN 75'
   d) NO HYDRIC A SOILS WITHIN 75'
   OF PROPOSED SYSTEM
5. DESIGNER MUST BE CONSULTED FOR ANY PROPOSED CHANGES OR ERRORS/DISCREPANCIES FOUND DURING SYSTEM INSTALLATION. (603 929–7404)
   INSTALLER IS RESPONSIBLE FOR ANY TOWN PERMITS OR INSPECTIONS REQUIRED FOR THIS INSTALLATION.



PLOT PLAN

1"=APPROX 100'

EXIS F.F. ELEV. (A) 80.4± (B) 80.5±

4" SOLID PIPE MIN SCH 40 MIN SLOPE= 1/4"PER FT

INV EL.(PROP) (A) 77.95 (B) 78.20

TANKS AND ACCESS RISERS TO BE H20

MATCH EXIS FG EL (A – 80.2±, B – 79.8±)

SEAL UNUSED OPENINGS

EXIS INV EL. (A) 78.08± (B) 78.34±

2 SEPTIC TANKS 1000 GAL. PHOENIX H20

VERIFY *

NO FOUNDATION DRAINS BOTH BUILDINGS SLAB ON GRADE

USE NON–SHRINK MORTAR SEALANT OR APPROVED EQUAL

4" SOLID PIPE MIN SCH 40 MIN 1/8"PER FT

INV EL.(2) 77.60

INV EL.(PROP) (A) 77.70 (B) 77.95

MATCH EXIS FG EL 80.2±

TOP OF TANK EL 78.9 *

ACCESS RISERS PER CLEAN SOLUTION SPECS

SEPTIC TANK

BIOCON W/ MEDIA

SETTLING TANK

REFERENCE CLEAN SOLUTION CONTRACT FOR CHAMBER CAPACITY AND MEDIA SPECIFICATIONS

15'

INV EL. 77.35

4" SOLID SCH 40 TO CHAMBER TO BE LEVEL

*VERIFY ALL TANK DIMENSIONS WITH MANUFACTURER PRIOR TO EXCAVATION

NOTE: INSTALLATION SPECIFICATIONS OUTLINED IN SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES (Env–Wq 1000) ARE INCLUDED AS PART OF THIS DESIGN BY REFERENCE. ANYONE WHO INSTALLS THIS SYSTEM MUST KNOW AND ADHERE TO THESE RULES.

CROSS SECTION DISPOSAL SYSTEM – NOT TO SCALE

PHOENIX H–20 SIDE ENTRY 4' X 12' CHAMBERS

FG EL. 80–80.5±

SUGGEST PAVING OVER ALL CHAMBERS

H–20 ACCESS (1ST & LAST CHAMBER)

4' (TOTAL: 32')

13" PIPE THROUGH CHAMBERS–TO BE LEVEL)

(4" PERFORATED

INV EL. 77.35

BOTTOM OF CHAMBERS EL 76.8

OPTIONAL VENT

ALTHOUGH NOT REQUIRED WITH CLEAN SOLUTION SYSTEM, CHAMBERS MAY BE VENTED. IF VENT IS OFFSET FROM BED, PIPE MUST PITCH UP AND AWAY FROM CHAMBERS.

PLUG END OUTLET OR CONNECT TO 4" SOLID PIPE LEADING TO VENT

SUGGEST PAVING OVER ALL CHAMBERS

* COVER MATERIAL AND SUBGRADE PREPARATION FOR PAVEMENT TO BE SPECIFIED BY TOWN OF NORTH HAMPTON FOR H20 LOADING

PERIMETER SIDEWALL TO BE LINED WITH FILTER FABRIC

24" SAND

MINIMUM 6" CRUSHED STONE ("SEPTIC STONE") UNDER CHAMBERS

12'

MIN 24" SAND

(TOTAL BED WIDTH: 12')

MIN 24" SAND

24" SAND

STONE TO MEET SPECIFICATIONS OUTLINED IN ENV–WQ 1016.04

REMOVE ALL COMPONENTS OF EXISTING SYSTEM IN EXIS EXCAVATION HOLE AND ALL MATERIAL UNDER AND WITHIN 24" OF CHAMBERS TO 30" BELOW BOTTOM OF CHAMBERS BREAK UP ADDITIONAL 12" OF ROTTEN ROCK (IF PRESENT) AND LEAVE IN PLACE AS TRANSITION LAYER OR RAKE RECEIVING SOIL PRIOR TO PLACING FILL. FILL MATERIAL BELOW BED AND 24" LATERALLY TO MEET SPECIFICATIONS OUTLINED IN ENV WS. 1021.03, EXCEPT THAT 6" OF SEPTIC STONE WILL BE USED UNDER CHAMBERS INSTEAD OF SCREENED SAND.

PLAN : 1"=20'

EVIDENCE OF SYSTEM FAILURE: PLUMBING BACKUP IN BUILDING. ANAEROBIC FAILURE OF LEACH FIELD OBSERVED WHEN EXCAVATED FOR INSPECTION.

N/D DAVID & FLORIS PETERS

DESIGN LOADING FIGURES

BASED ON WATER USAGE FIGURES PROVIDED BY TOWN OF NORTH HAMPTON:

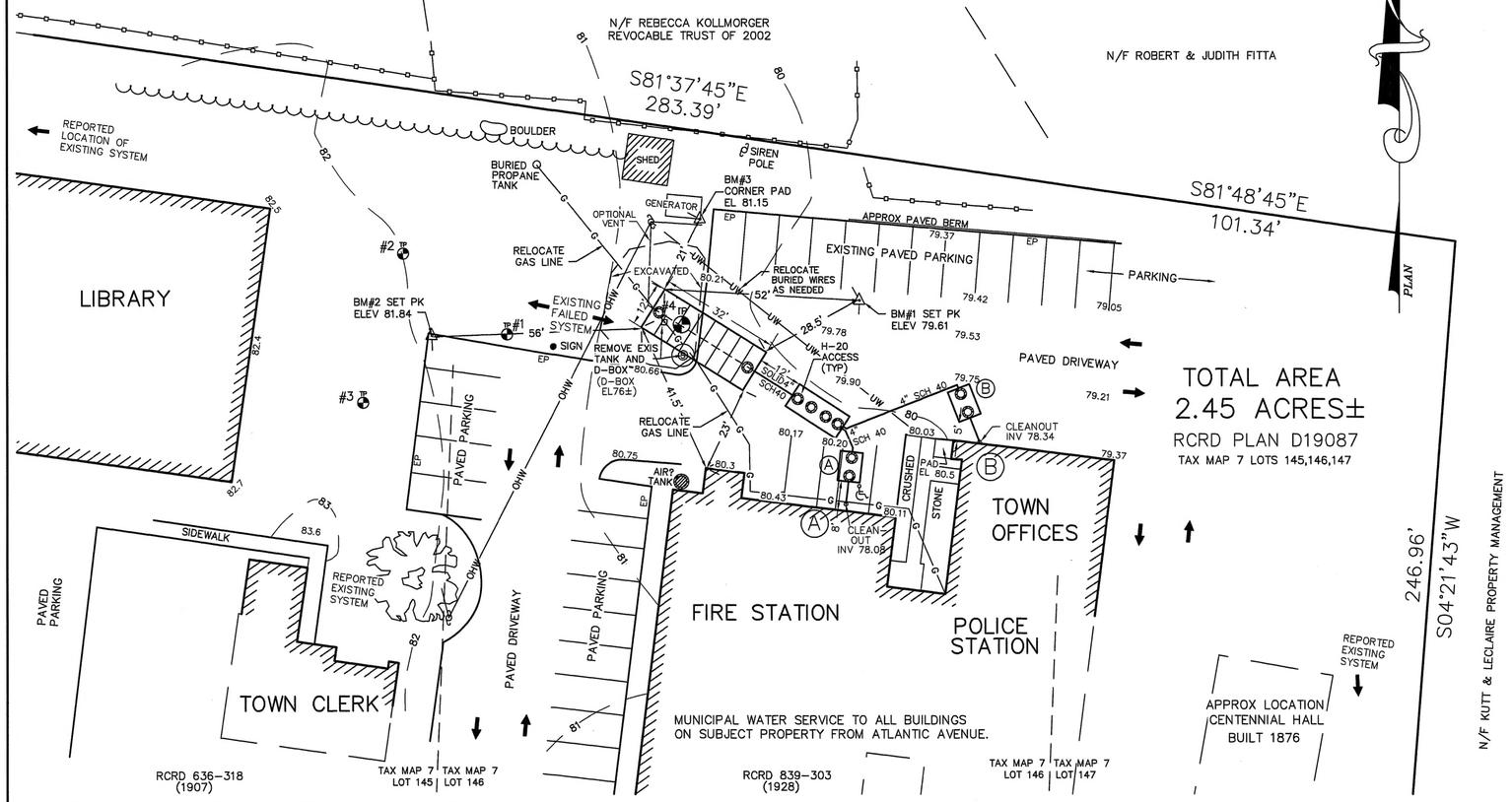
(A) FIRE DEPARTMENT WATER USAGE FOR 1 YEAR = 7000 CU FT X 7.48 = 52360 GAL/365 = 144 GPD
144 GPD AVERAGE PEAK X 3 = 430 /SAY 500 GPD DESIGN LOADING

(B) POLICE DEPT/TOWN OFFICES USAGE FOR 1 YEAR = 5100 CU FT X 7.48 = 38148 GAL/365 = 105 GPD
105 GPD AVERAGE PEAK X 3 = 314/SAY 500 GPD DESIGN LOADING

(A) 500 GPD + (B) 500 GPD = 1000 GPD TOTAL SYSTEM DESIGN LOADING

ALL SPECIFICATIONS AND RESPONSIBILITIES OUTLINED IN THE CLEAN SOLUTION MANUAL AND CONTRACT ARE A PART OF THIS DESIGN. MAINTENANCE CONTRACT MUST BE EXECUTED PRIOR TO INSTALLATION.

Wastewater Alternatives, Inc.
11 Hethlon Road
Canterbury, NH 03224
Toll free: 866–900–2415
Office No: 603–783–8042
Fax No: 603–783–4499
www.thecleansolution.com



SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS

ENV–WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. (b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.

ENV–WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD.

ENV–WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.

TP TEST PIT DATA

DATE: DECEMBER 21, 2010

TOWN INSPECTOR: RICHARD MAYBE

TEST PIT #1 ELEV 81.2

0 –40" MISC FILL OVER EXISTING SYSTEM SAND
40"– 60"+ EXISTING SYSTEM SAND
NO ESHWT, NO OBSERVED WATER, NO REFUSAL,

TEST PIT #2 ELEV 82.0

0 – 6 " 10YR4/4 FINE SANDY LOAM, GRANULAR FRIABLE
6 –30" 10YR4/6 TO 5/6 GRAVELLY FINE SANDY LOAM GRANULAR FRIABLE
30–52" 2.5Y5/4 GRAVELLY LOAMY SAND, FIRM, BLOCKY WITH ROTTEN ROCK AND POSSIBLE LEDGE AT 36" IN WEST HALF OF PIT.
NO ESHWT, NO OBSERVED WATER, POSSIBLE REFUSAL @ 36" ROOTS TO 30"+

TEST PIT #3 ELEV 82.3

0 – 6 " 10YR4/4 FINE SANDY LOAM, GRANULAR FRIABLE
6 –30" 10YR4/6 TO 5/6 GRAVELLY FINE SANDY LOAM GRANULAR FRIABLE
30–60" 2.5Y5/4 GRAVELLY LOAMY SAND, VERY FIRM, BLOCKY, WITH ROTTEN ROCK
NO ESHWT, NO OBSERVED WATER, NO REFUSAL

TEST PIT #4 ELEV 80.2±

CONSISTS OF OPEN EXCAVATION PERFORMED TO INSPECT EXISTING SYSTEM. TOP OF EXISTING D–BOX = APPROX ELEV 76.5 (EXISTING BED BOTTOM ASSUMED TO BE ELEV 75.5±). NO EVIDENCE OF REFUSAL/SHWT OBSERVED TO APPROX ELEV 73.5.

PERC RATE: N/A FOR CLEAN SOLUTION SYSTEM

ACTUAL LOADING: ANNUAL WATER USAGE FOR COMBINED USE = AVERAGE <300 GPD – PEAK X 3 = 900 GPD

DESIGN LOADING: 500 GPD FOR EACH BUILDING = 1000 GPD TOTAL

DISPERSAL AREA REQUIRED: 1 SF PER 3 GPD = 333 SF REQUIRED

DISPERSAL AREA PROPOSED: EIGHT 4'X12' CHAMBERS FOR 12' X 32' = 384 SF PROPOSED

PROPOSED REPLACEMENT

SEPTIC SYSTEM PLAN

EXISTING FAILED SYSTEM

LOCUS: 233–235 ATLANTIC AVENUE
TAX MAP 7 LOTS 145,146,147
NORTH HAMPTON, NH

OWNER: TOWN OF NORTH HAMPTON
233 ATLANTIC AVENUE
NORTH HAMPTON, NH 03862

NEW HAMPSHIRE Designer of Subsurface Disposal Systems Anne W. Bielobrzeski No. 348

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03843–1306
603 929–7404

DATE: JANUARY 12, 2011

APPROVAL: CA20111035O2